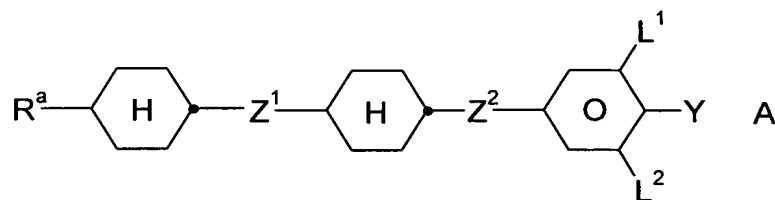


The listing of claims will replace all prior versions, and listings, of claims in the application:

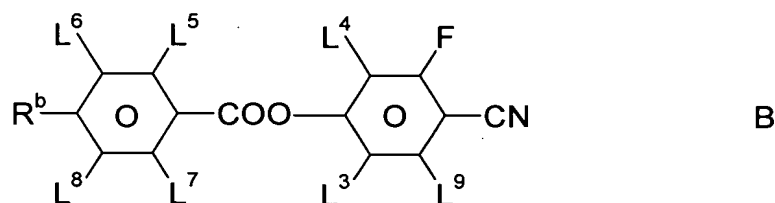
Listing of Claims:

1. (Currently Amended) A liquid-crystalline medium comprising one or more compounds of formula A



and

at least one compound of formula B



in which

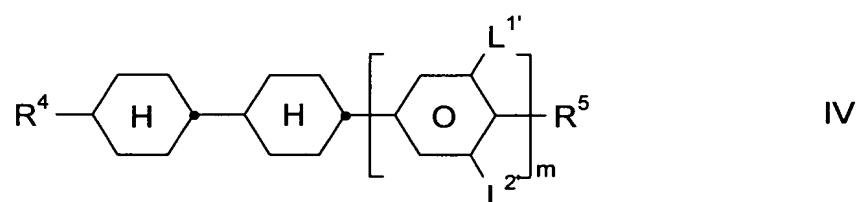
R^a is H or an alkyl radical having 1 to 12 carbon atoms which is unsubstituted or monosubstituted by CN or CF_3 , or at least monosubstituted by halogen, in which one or more CH_2 groups are optionally, independently of one another, replaced by -O-, -S-, , -CH=CH-, -C≡C-, -CO-, -CO-O-, -O-CO- or -O-CO-O- in

such a way that O atoms are not linked directly to one another, R^b is H or an alkyl radical having 1 to 12 carbon atoms which is unsubstituted or monosubstituted by CN or CF_3 , or at least monosubstituted by halogen, in which one or more CH_2 groups are optionally, independently of one another, replaced by -O-, -S-, , -C≡C-, -CO-, -CO-O-, -O-CO- or -O-CO-O- in such a

way that O atoms are not linked directly to one another,
 Z^1 and Z^2 are each, independently of one another, $-(CH_2)_4-$, $-CF_2O-$, $-COO-$, $-OCF_2-$, $-OCH_2-$, $-CH_2O-$, $-CH_2-$, $-(CH_2)_3-$ or a single bond, wherein at least one of Z^1 and Z^2 is $-OCF_2-$ or $-CF_2O-$,
 L^1 to L^9 are each, independently of one another, H or F, and
Y is F, Cl, SF_5 , NCS, OCN, CN, SCN, or a monohalogenated or polyhalogenated alkyl, alkoxy, alkenyl or alkenyloxy radical, each having up to 5 carbon atoms;

provided that the medium comprises:

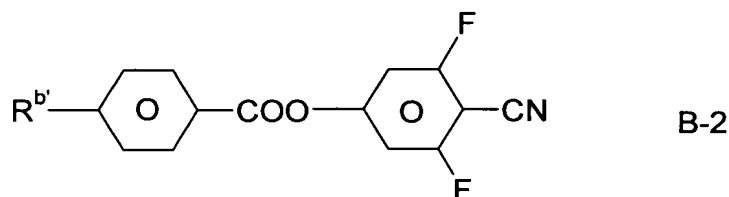
at least one compound of formula IV



in which

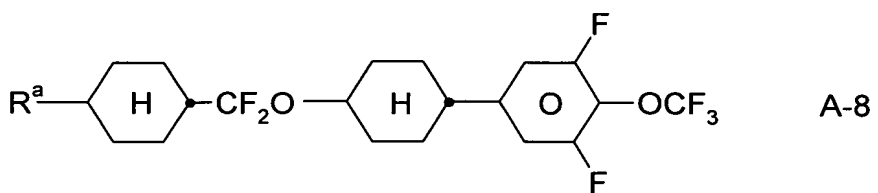
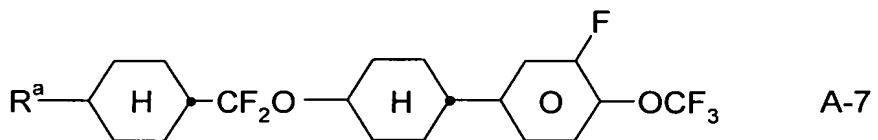
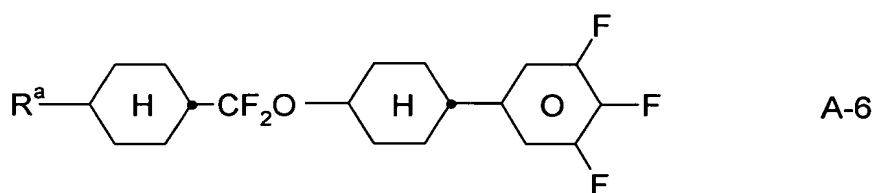
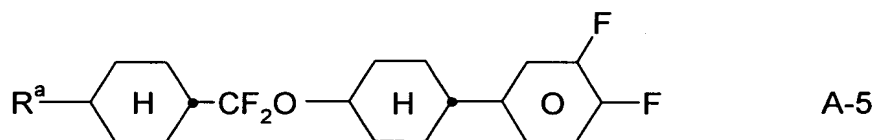
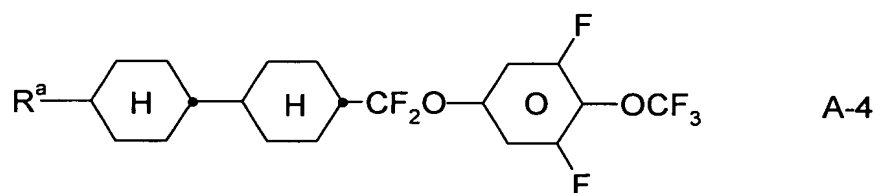
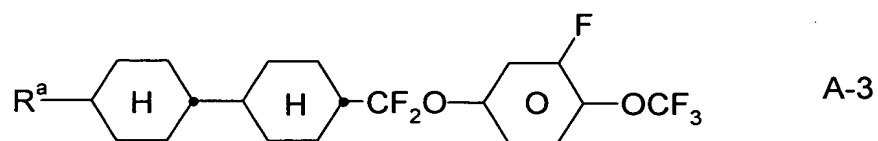
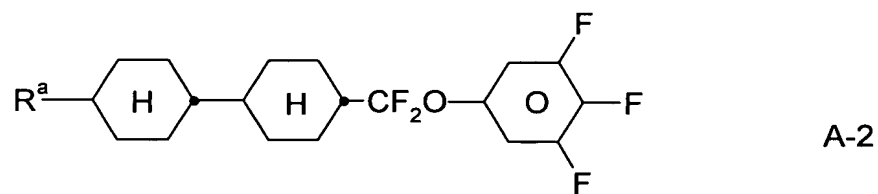
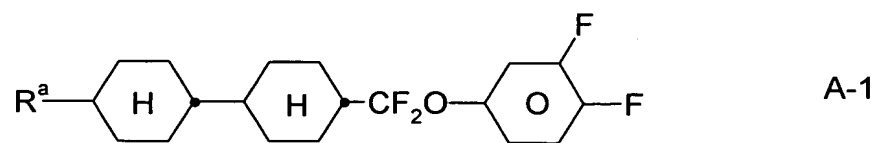
m is 1,
 R^4 is an alkenyl group having 2 to 7 carbon atoms,
 R^5 is as defined for R^a or is F, Cl, CF_3 or OCF_3 ,
 L^1 is F and
 L^2 is H or F,

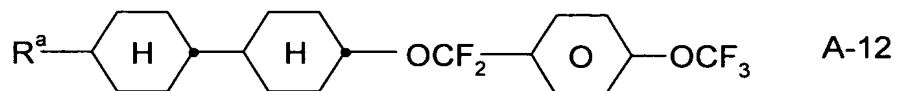
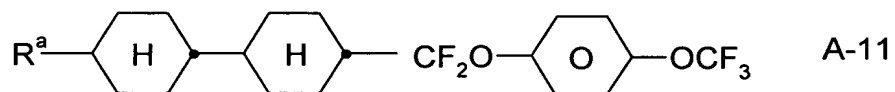
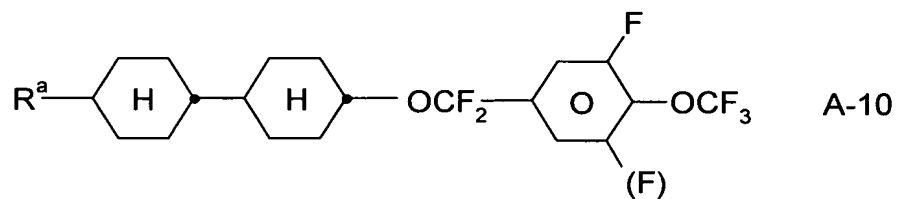
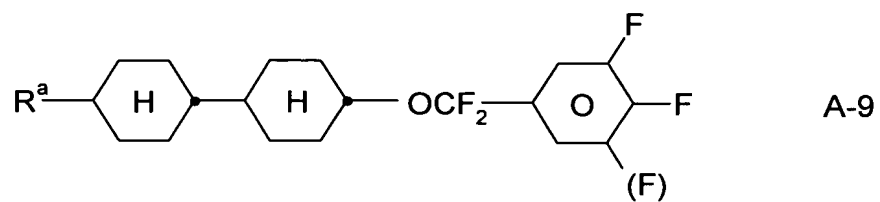
or that at least one compound of formula B is of the following formula B-2;



in which $R^{b'}$ is a C_{2-12} alkenyl radical $[[\cdot]]$.

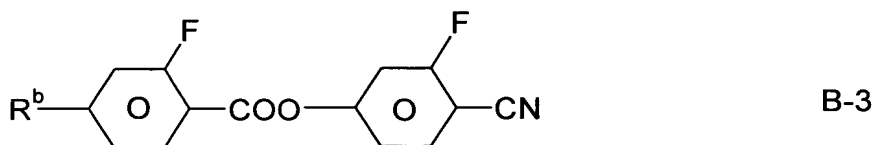
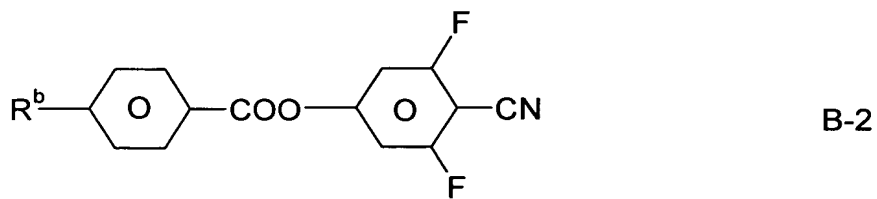
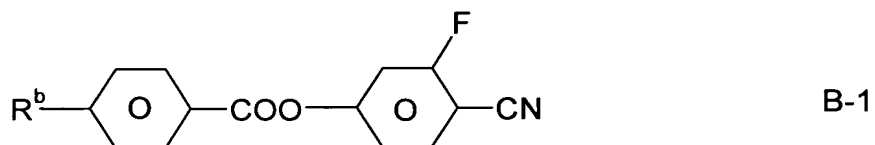
2. (Original) A liquid-crystalline medium according to Claim 1, comprising a compound of formulae A-1 to A-12

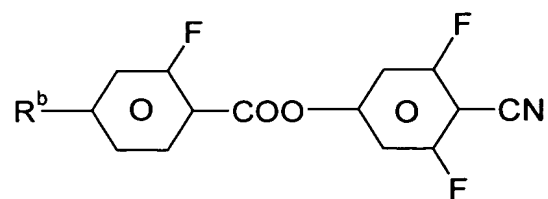




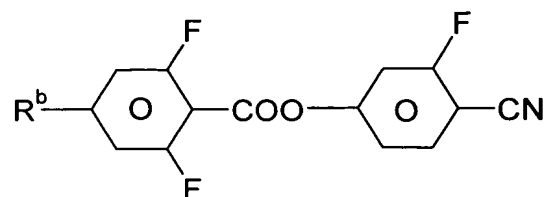
in which R^a is as defined in Claim 1.

3. (Original) A liquid-crystalline medium according to Claim 1, comprising a compound of formulae B-1 to B-6

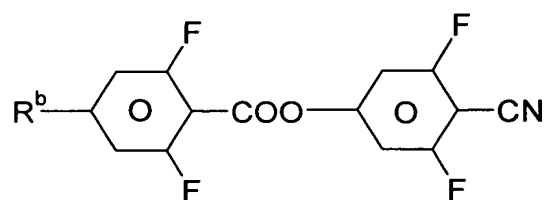




B-4



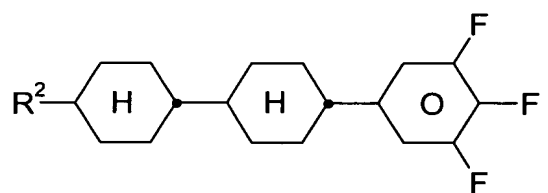
B-5



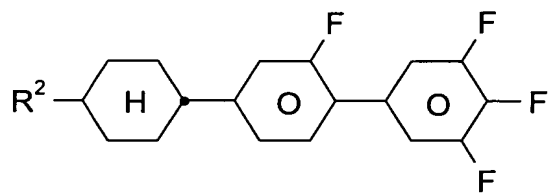
B-6

in which R^b is as defined in Claim 1.

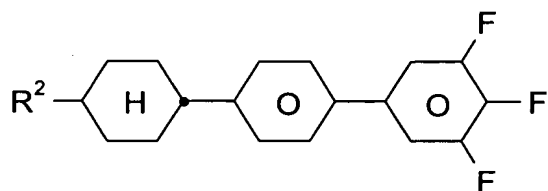
4. (Original) A liquid-crystalline medium according to Claim 1, further comprising a compound of formulae IIa to IIj



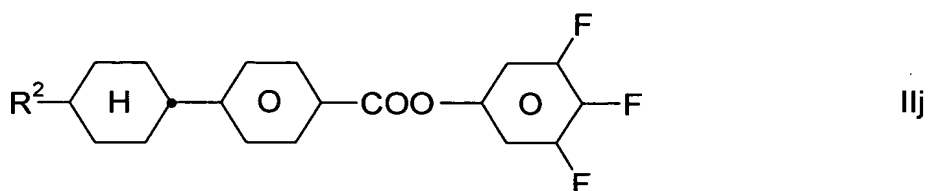
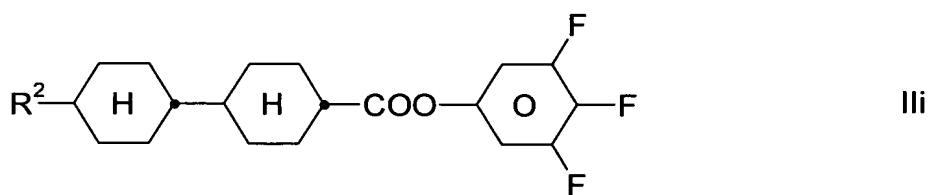
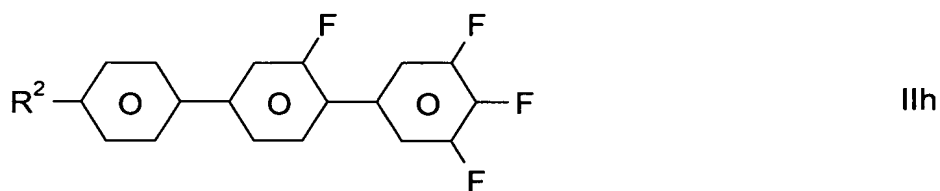
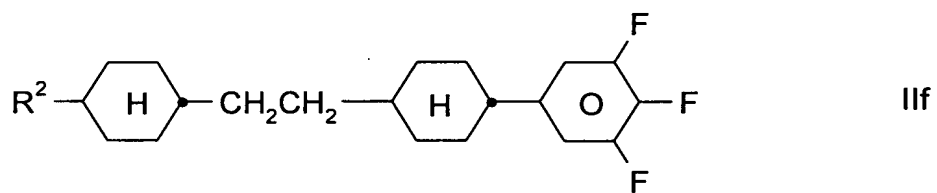
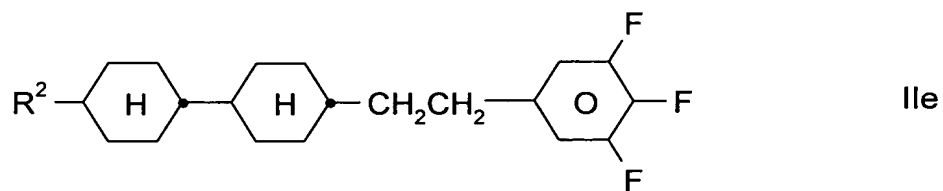
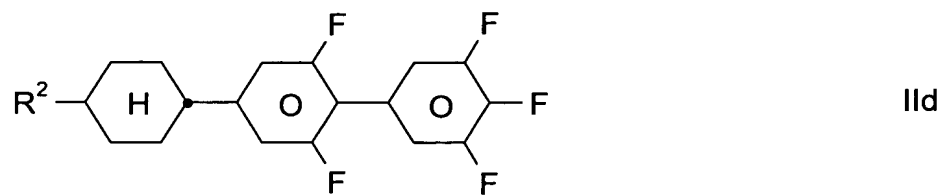
IIa



IIb

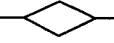


IIc

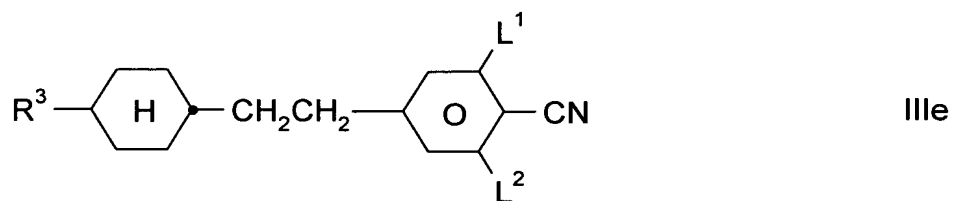
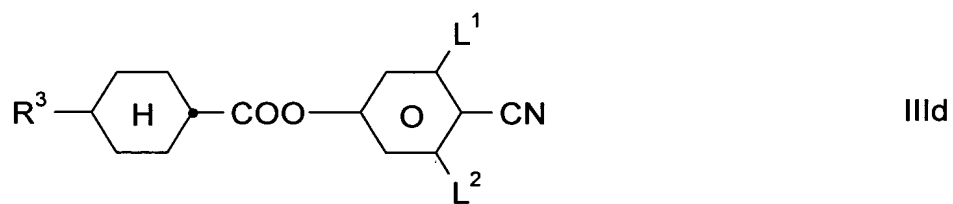
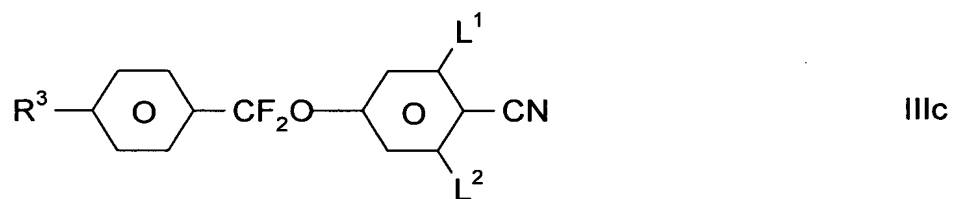
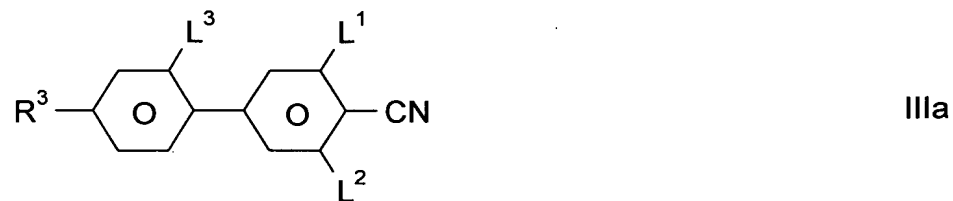


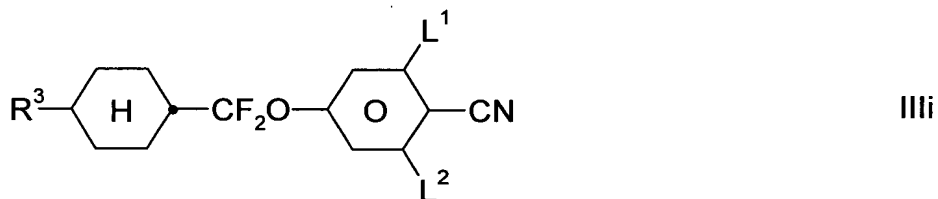
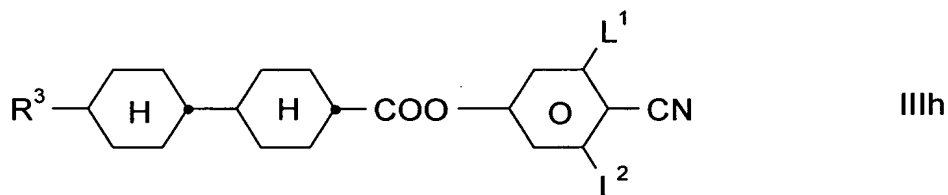
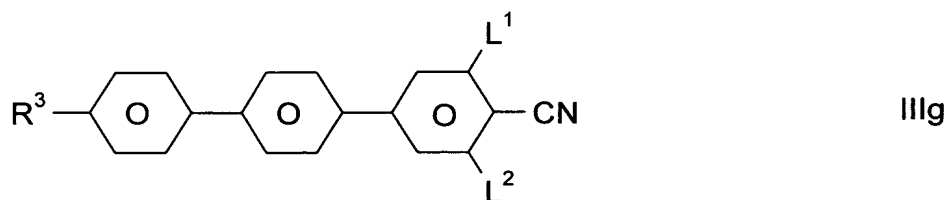
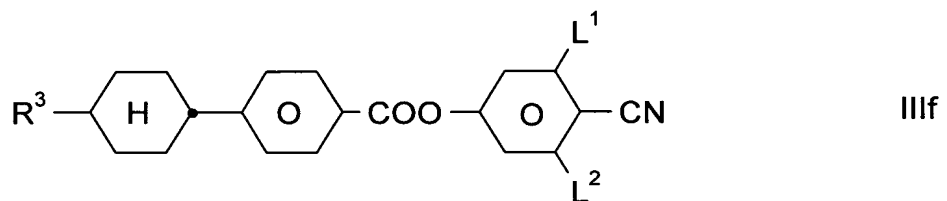
in which

R^2 is an alkyl radical having 1 to 12 carbon atoms which is unsubstituted or monosubstituted by CN or CF_3 , or at least monosubstituted by halogen, in

which one or more CH₂ groups are optionally, independently of one another, replaced by -O-, -S-, , -CH=CH-, -C≡C-, -CO-, -CO-O-, -O-CO- or -O-CO-O- in such a way that O atoms are not linked directly to one another.

5. (Original) A liquid-crystalline medium according to Claim 1, further comprising a cyano compound of formulae IIIa to IIIi





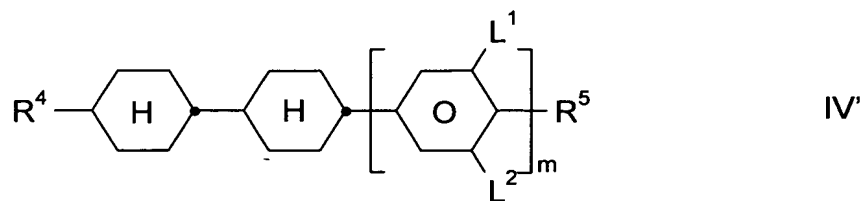
in which

R^3 is an alkyl radical having 1 to 12 carbon atoms which is unsubstituted or monosubstituted by CN or CF_3 , or at least monosubstituted by halogen, in which one or more CH_2 groups are optionally, independently of one another, are replaced by $-O-$, $-S-$, , $-CH=CH-$, $-C\equiv C-$, $-CO-$, $-CO-O-$, $-O-CO-$ or $-O-CO-O-$ in such a way that O atoms are not linked directly to one another, and

L^1, L^2

and L^3 are each, independently of one another, H or F.

6. (Previously Presented) A liquid-crystalline medium according to Claim 1, further comprising a compound of formula IV'



in which

m is 0 or 1,

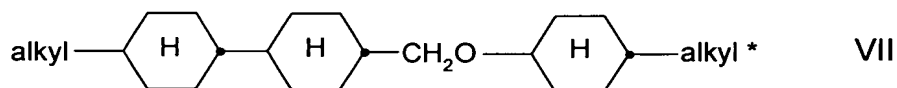
R^4 is an alkenyl group having 2 to 7 carbon atoms,

R^5 is defined as R^a in claim 1, or, when m is 1, is alternatively F, Cl, CF_3 or OCF_3 , and

L^1 and L^2 are each, independently of one another, H or F,

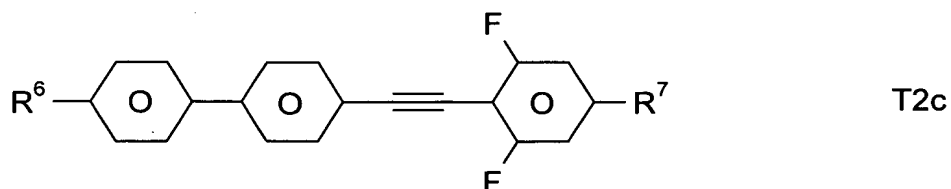
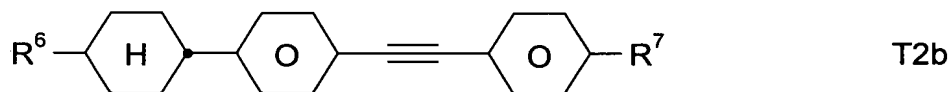
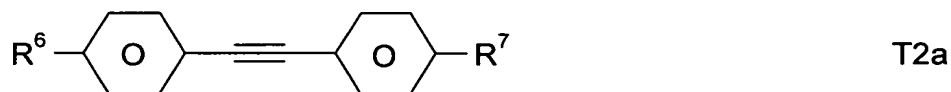
wherein the compound of formula IV is not identical to the compound of formula IV'.

7. (Original) A liquid-crystalline medium according to Claim 1, further comprising a compound of formula VII

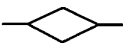


in which alkyl and alkyl* are each, independently of one another, an alkyl group having 1 to 7 carbon atoms.

8. (Original) A liquid-crystalline medium according to Claim 1, further comprising a tolan compound of formula T2a, T2b or T2c



in which

R^6 and R^7 are each, independently of one another, an alkyl radical having 1 to 12 carbon atoms which is unsubstituted or monosubstituted by CN or CF_3 , or at least monosubstituted by halogen, in which one or more CH_2 groups are optionally, independently of one another, replaced by -O-, -S-, , -CH=CH-, -C≡C-, -CO-, -CO-O-, -O-CO- or -O-CO-O- in such a way that O atoms are not linked directly to one another.

9. (Original) A liquid-crystalline medium according to Claim 1, wherein the medium comprises 5-30% by weight of one or more compounds of formula A.

10. (Original) A liquid-crystalline medium according to Claim 1, wherein the medium comprises 5-30% by weight of one or more compounds of formula B.

11. (Original) A liquid-crystalline medium according to Claim 1, wherein the medium comprises more than 20% of compounds having a dielectric anisotropy of $\Delta\epsilon \geq +12$.

12. (Original) An electro-optical device comprising a liquid-crystalline medium according to Claim 1.

13. (Original) An electro-optical liquid-crystal display containing a liquid-crystalline medium according to Claim 1.

14. (Original) A TN or STN liquid-crystal display comprising
- two outer plates, which, together with a frame, form a cell,
 - a nematic liquid-crystal mixture of positive dielectric anisotropy located in the cell,
 - electrode layers with alignment layers on the insides of the outer plates,
 - a tilt angle between the longitudinal axis of the molecules at the surface of the outer plates and the outer plates of from 0 degree to 30 degrees, and
 - a twist angle of the liquid-crystal mixture in the cell from alignment layer to alignment layer with a value of between 22.5° and 600°, and
 - a nematic liquid-crystal mixture comprising

- a) 15 – 75% by weight of a liquid-crystalline component A

consisting of one or more compounds having a dielectric anisotropy of greater than +1.5;

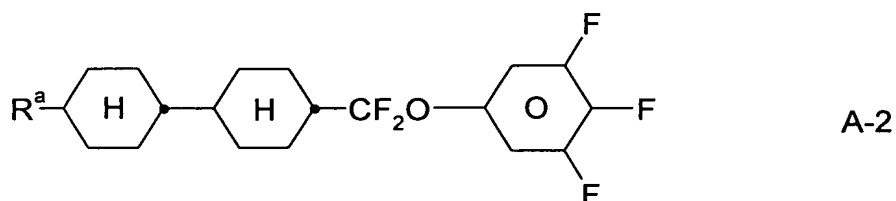
- b) 25 – 85% by weight of a liquid-crystalline component B consisting of one or more compounds having a dielectric anisotropy of between -1.5 and +1.5;
- c) 0 – 20% by weight of a liquid-crystalline component D consisting of one or more compounds having a dielectric anisotropy of below -1.5, and
- d) optionally, an optically active component C in such an amount that the ratio between the layer thickness and the natural pitch of the chiral nematic liquid-crystal mixture is from about 0.2 to 1.3,

wherein component A is a liquid-crystalline medium according to claim 1.

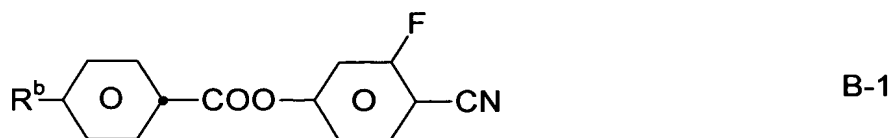
15. (Previously Presented) A liquid-crystalline medium according to claim 2, comprising a compound of formula A-2 or A-6.

16. (Previously Presented) A liquid-crystalline medium according to claim 3, comprising a compound of formula B-1, B-2' or B-4.

17. (Previously Presented) A liquid-crystalline medium according to claim 1, comprising a compound of formula A-2



and a compound of formula B-1

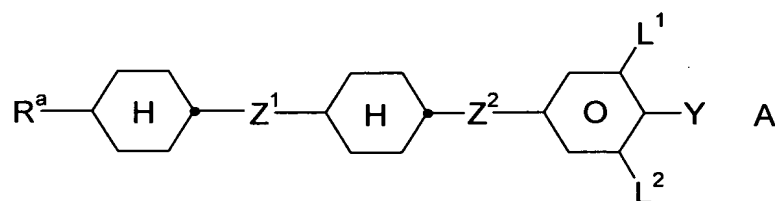


wherein in R^a and R^b are as defined in claim 1.

18. (Previously Presented) A liquid-crystalline medium according to claim 1, wherein the medium contains three homologous compounds of formula A.

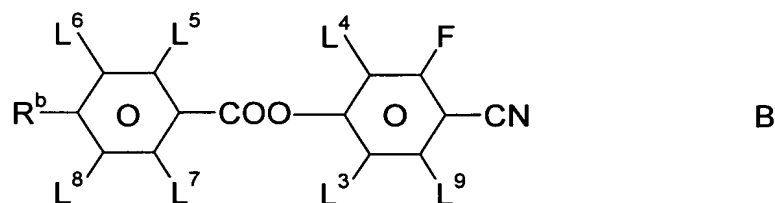
19. (Previously Presented) A liquid-crystalline medium according to Claim 1, wherein R^b is a C_{2-7} alkenyl radical.

20. (Previously Presented) A liquid-crystalline medium comprising one or more compounds of formula A



and

at least one compound of formula B



in which

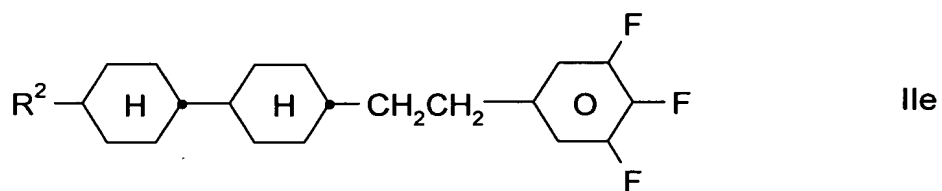
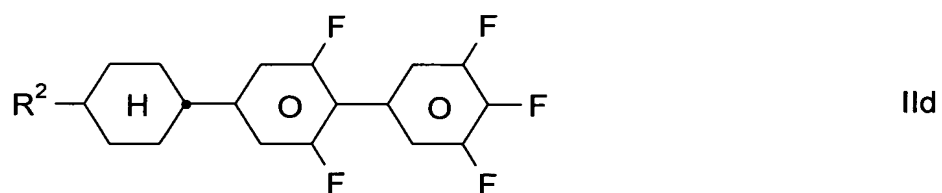
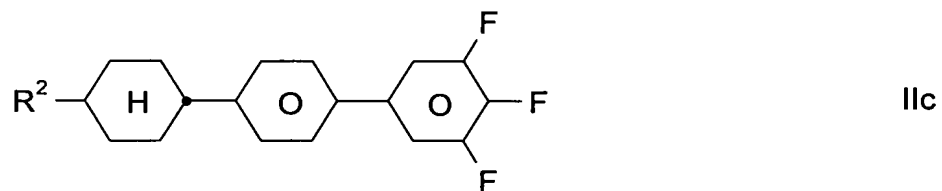
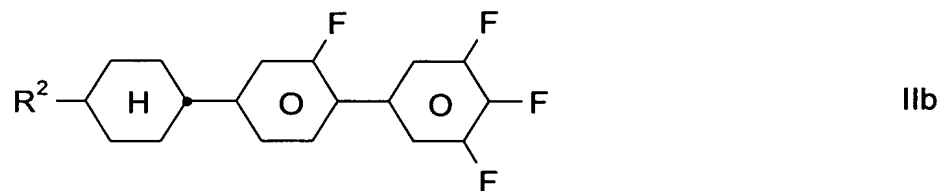
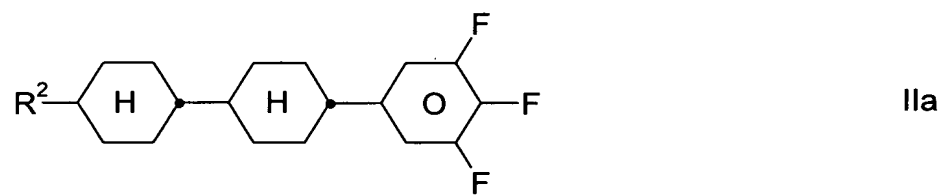
R^a and R^b are each, independently of one another, H or an alkyl radical having 1 to 12 carbon atoms which is unsubstituted or monosubstituted by CN or CF_3 , or at least monosubstituted by halogen, in which one or more CH_2 groups are optionally, independently of one another, replaced by $-O-$, $-S-$, $\text{—}\diamond\text{—}$, $-\text{CH}=\text{CH}-$, $-\text{C}\equiv\text{C}-$, $-\text{CO}-$, $-\text{CO}-\text{O}-$, $-\text{O}-\text{CO}-$ or $-\text{O}-\text{CO}-\text{O}-$ in such a way that O atoms are not linked directly to one another,

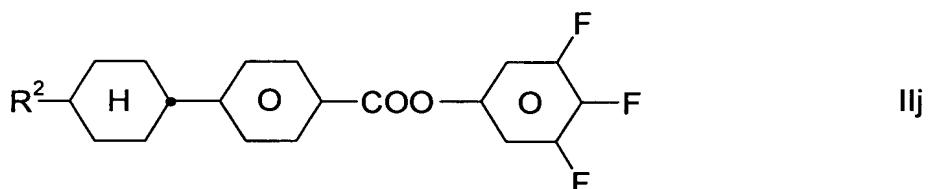
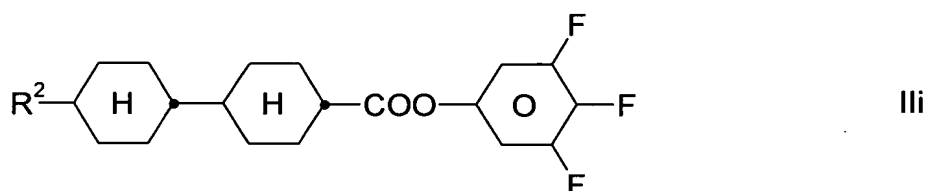
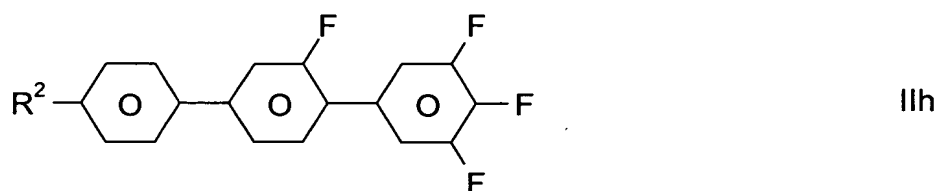
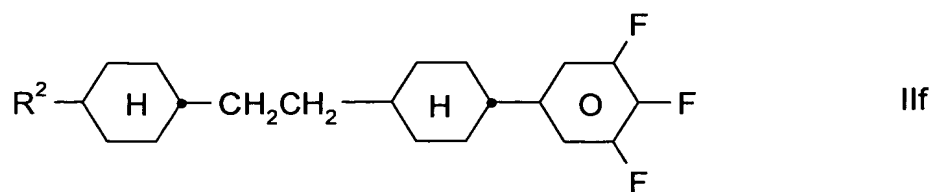
Z^1 and Z^2 are each, independently of one another, $-(CH_2)_4-$, $-\text{CF}_2\text{O}-$, $-\text{COO}-$, $-\text{OCF}_2-$, $-\text{OCH}_2-$, $-\text{CH}_2\text{O}-$, $-\text{CH}_2-$, $-(CH_2)_3-$ or a single bond, wherein at least one of Z^1 and Z^2 is $-\text{OCF}_2-$ or $-\text{CF}_2\text{O}-$,

L^1 to L^9 are each, independently of one another, H or F, and
 Y is F, Cl, SF_5 , NCS, OCN, CN, SCN, or a monohalogenated or polyhalogenated alkyl, alkoxy, alkenyl or alkenyloxy radical, each having up to 5 carbon atoms,

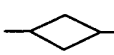
and

a compound of formulae IIa to IIj

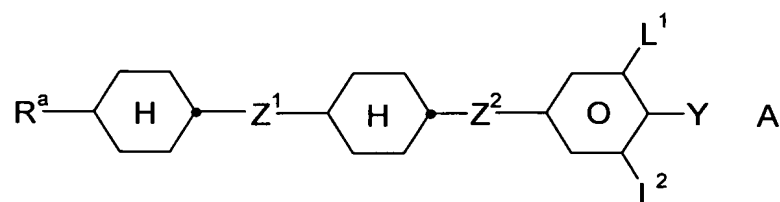




in which

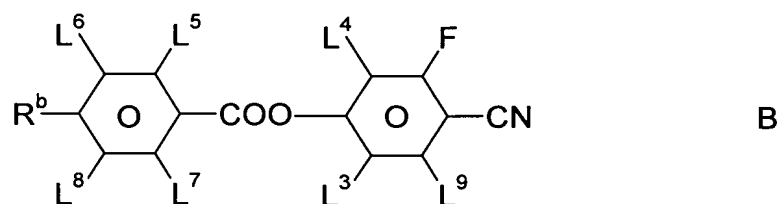
R² is an alkyl radical having 1 to 12 carbon atoms which is unsubstituted or monosubstituted by CN or CF₃, or at least monosubstituted by halogen, in which one or more CH₂ groups are optionally, independently of one another, replaced by -O-, -S-, , -CH=CH-, -C≡C-, -CO-, -CO-O-, -O-CO- or -O-CO-O- in such a way that O atoms are not linked directly to one another.

21. (Previously Presented) A liquid-crystalline medium comprising one or more compounds of formula A



and

at least one compound of formula B

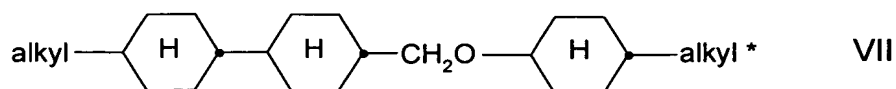


in which

- R^a and R^b are each, independently of one another, H or an alkyl radical having 1 to 12 carbon atoms which is unsubstituted or monosubstituted by CN or CF_3 , or at least monosubstituted by halogen, in which one or more CH_2 groups are optionally, independently of one another, replaced by $-O-$, $-S-$, --- (cyclobutane ring) --- , $-CH=CH-$, $-C\equiv C-$, $-CO-$, $-CO-O-$, $-O-CO-$ or $-O-CO-O-$ in such a way that O atoms are not linked directly to one another,
- Z^1 and Z^2 are each, independently of one another, $-(CH_2)_4-$, $-CF_2O-$, $-COO-$, $-OCF_2-$, $-OCH_2-$, $-CH_2O-$, $-CH_2-$, $-(CH_2)_3-$ or a single bond, wherein at least one of Z^1 and Z^2 is $-OCF_2-$ or $-CF_2O-$,
- L^1 to L^9 are each, independently of one another, H or F, and
- Y is F, Cl, SF_5 , NCS, OCN, CN, SCN, or a monohalogenated or polyhalogenated alkyl, alkoxy, alkenyl or alkenyloxy radical, each having up to 5 carbon atoms,

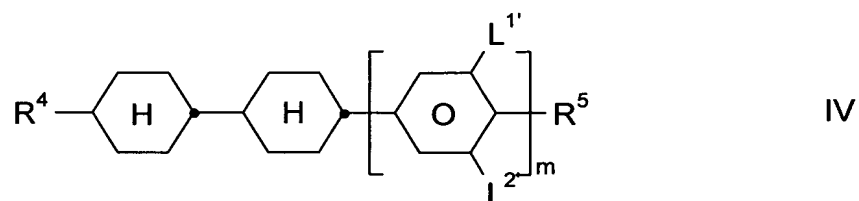
and

a compound of formula VII



in which alkyl and alkyl* are each, independently of one another, an alkyl group having 1 to 7 carbon atoms.

22. (Previously Presented) A liquid-crystalline medium according to Claim 20, further comprising at least one compound of formula IV



in which

m is 1,

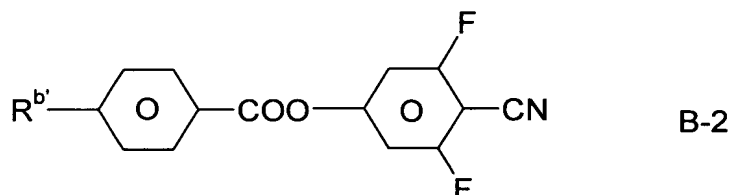
R⁴ is an alkenyl group having 2 to 7 carbon atoms,

R⁵ is as defined for R^a or is F, Cl, CF₃ or OCF₃,

L¹ is F and

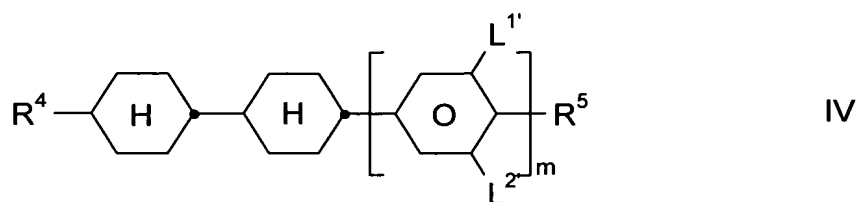
L² is H or F,

or that at least one compound of formula B is of the following formula B-2;



in which R^{b'} is a C₂₋₁₂ alkenyl radical.

23. (Previously Presented) A liquid-crystalline medium according to Claim 21, further comprising at least one compound of formula IV



in which

m is 1,

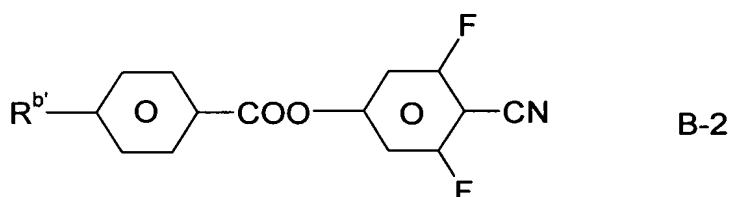
R⁴ is an alkenyl group having 2 to 7 carbon atoms,

R⁵ is as defined for R^a or is F, Cl, CF₃ or OCF₃,

L¹ is F and

L² is H or F,

or that at least one compound of formula B is of the following formula B-2;

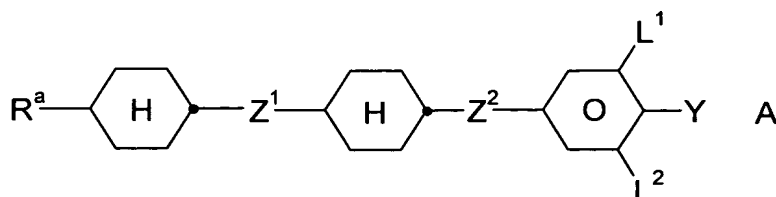


in which R^{b'} is a C₂₋₁₂ alkenyl radical.

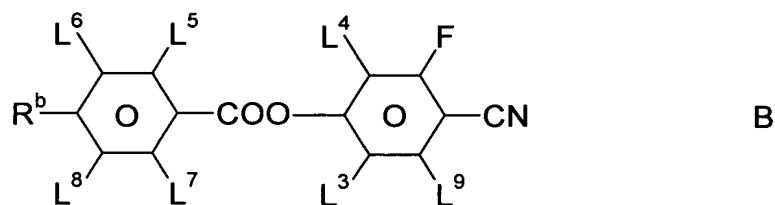
24. (Previously Presented) A liquid-crystalline medium according to Claim 1, which comprises a compound of formula IV.

25. (Currently Amended) A liquid-crystalline medium according to Claim 1, wherein in the compound of formula IV, R⁵ is F, Cl, CF₃ or OCF₃.

26. (Previously Presented) A liquid-crystalline medium comprising one or more compounds of formula A and B, and of IV or one of IIa to IIj, wherein formula A is



formula B is



in which

R^a and R^b are each, independently of one another, H or an alkyl radical having 1 to 12 carbon atoms which is unsubstituted or monosubstituted by CN or CF_3 , or at least monosubstituted by halogen, in which one or more CH_2 groups are optionally, independently of one another, replaced by $-O-$, $-S-$, $\text{—}\diamond\text{—}$, $-\text{CH}=\text{CH}-$, $-\text{C}\equiv\text{C}-$, $-\text{CO}-$, $-\text{CO}-\text{O}-$, $-\text{O}-\text{CO}-$ or

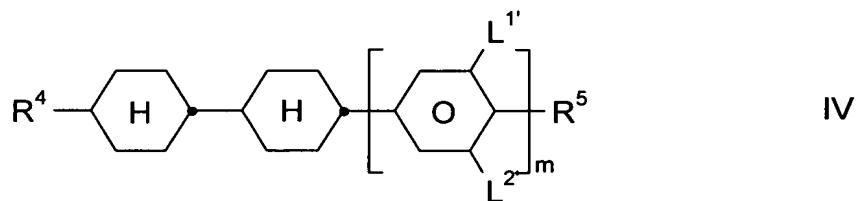
$-\text{O}-\text{CO}-\text{O}-$ in such a way that O atoms are not linked directly to one another,

Z^1 and Z^2 are each, independently of one another, $-(\text{CH}_2)_4-$, $-\text{CF}_2\text{O}-$, $-\text{COO}-$, $-\text{OCF}_2-$, $-\text{OCH}_2-$, $-\text{CH}_2\text{O}-$, $-\text{CH}_2-$, $-(\text{CH}_2)_3-$ or a single bond, wherein at least one of Z^1 and Z^2 is $-\text{OCF}_2-$ or $-\text{CF}_2\text{O}-$,

L^1 to L^9 are each, independently of one another, H or F, and

Y is F, Cl, SF_5 , NCS, OCN, CN, SCN, or a monohalogenated or polyhalogenated alkyl, alkoxy, alkenyl or alkenyloxy radical, each having up to 5 carbon atoms,

formula IV is



in which

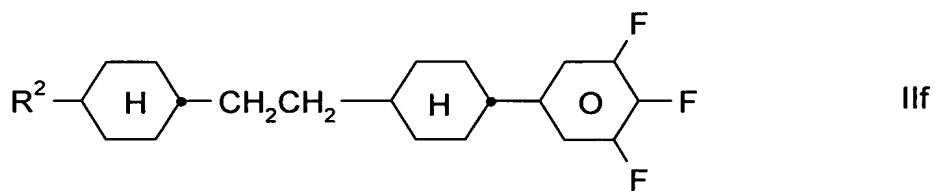
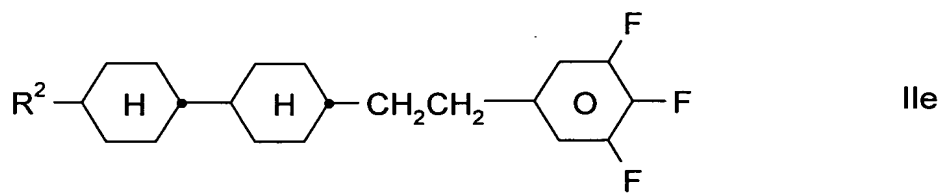
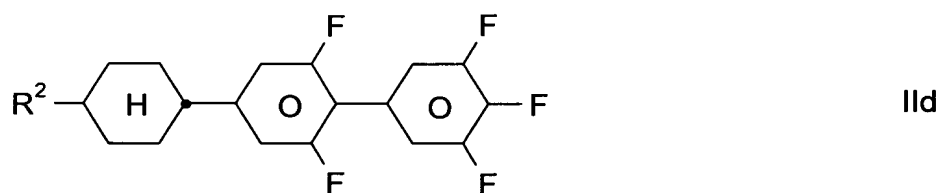
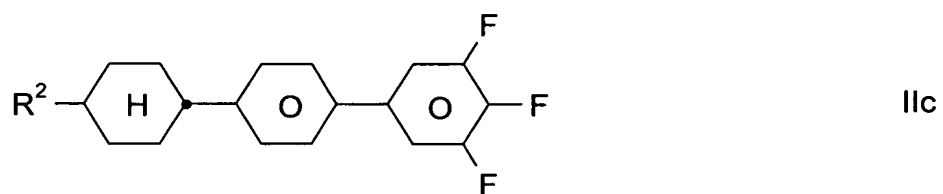
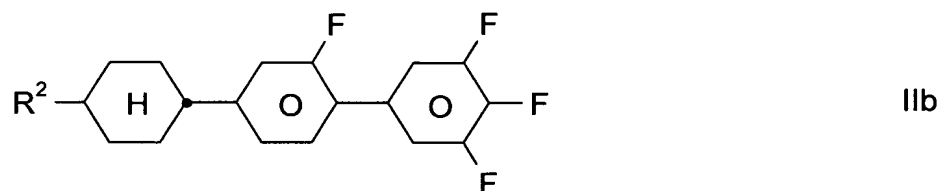
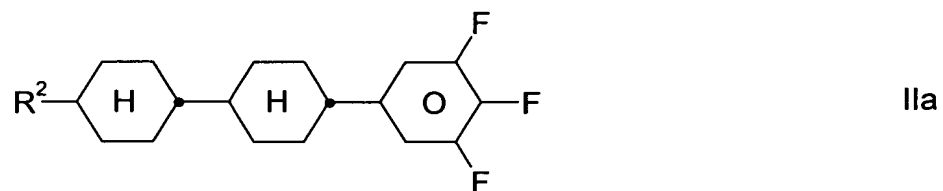
m is 1,

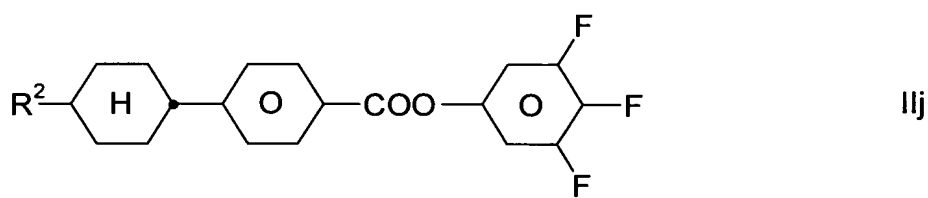
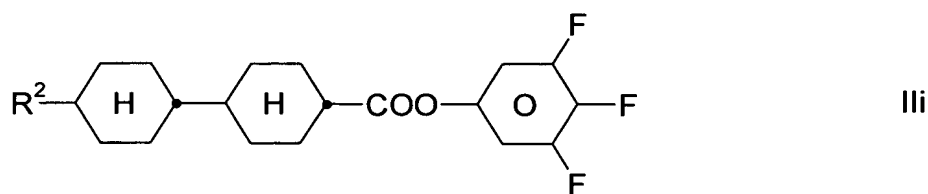
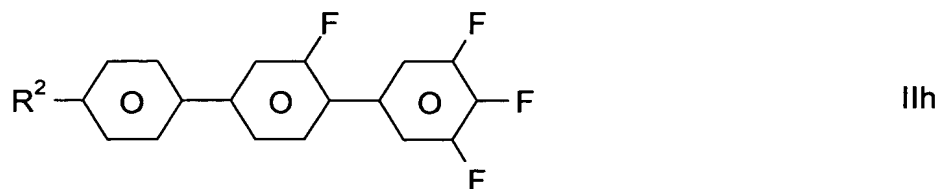
R^4 is an alkenyl group having 2 to 7 carbon atoms,

R^5 is as defined for R^a or is F, Cl, CF_3 or OCF_3 ,

L^{1'} is F and
 L^{2'} is H or F,

and formulae IIa to IIj are





in which

R^2 is an alkyl radical having 1 to 12 carbon atoms which is unsubstituted or monosubstituted by CN or CF_3 , or at least monosubstituted by halogen, in which one or more CH_2 groups are optionally, independently of one another, replaced by $-O-$, $-S-$, , $-CH=CH-$, $-C\equiv C-$, $-CO-$, $-CO-O-$, $-O-CO-$ or $-O-CO-O-$ in such a way that O atoms are not linked directly to one another.

27. (Previously Presented) A liquid-crystalline medium according to Claim 26, wherein in the compound of formula IV, R^5 is F, Cl, CF_3 or OCF_3 .

28. (Previously Presented) A liquid-crystalline medium according to Claim 6, wherein in the compound of formula IV', R^5 is F, Cl, CF_3 or OCF_3 .

29. (Previously Presented) A liquid-crystalline medium according to Claim 25 which has a threshold voltage of less than 1 V.

30. (Previously Presented) A liquid-crystalline medium according to Claim 1 which has a threshold voltage of less than 1 V.

31. (Previously Presented) A liquid-crystalline medium according to Claim 1 which has a threshold voltage of 0.65 to 0.75 V.